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<212> DNA

<213> Saccharomyces cerevisiae

<400> 427

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<400> 429

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 431

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<213> *Saccharomyces cerevisiae*

<400> 432

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<212> DNA  
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attggatgct acgatgcata a 2241

<210> 434  
<211> 1812  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 434

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<210> 435  
<211> 2124  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 435

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<210> 436  
 <211> 978  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 436

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<210> 437  
<211> 2271  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 437

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gcagcttcaa atcagatgat caatacccca ccgccgtcga tgggtggtct ttatagacat 360  
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<210> 438  
<211> 2646  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 438

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<210> 439  
 <211> 1248  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 439

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<210> 440  
 <211> 4140  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 440

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 ttgagaaaaa taaactacgc agaaattgag aaagtgtttg attttttgga agatgaccag 180  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 446

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<211> 2532  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 447

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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actttgaaat ccacgagttc gacaaaactct ccagattaa 1359

<210> 449  
 <211> 369  
 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 449

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<210> 450  
 <211> 765  
 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 450

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<210> 451  
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 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 451

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 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 452

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 cgttcattca tgaagactca actaggttgg ccacacgaaa agtctgatga aattctcatt 2940  
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<210> 453  
 <211> 2859  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 453

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 aatggtagca actataccca aaagaagcct tacaacagca acagacctca tcagcaaaga 180  
 ggtggtaaat ttggaccaa cagatataac aaccgtggca actataatgg tggcggtagt 240  
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 aactaccccg tttactacca gcccagcaa atggcgggcg ctggtagtgc ccctgctaatt 360  
 ccaattcctg tcgaagagaa gtcacctgtt ccaactaaga tagaaatcac taccaagtct 420  
 ggtgaacact tagatttgaa agaacagcat aaagccaagc tacagtctca ggaaagatct 480  
 actgtgtctc cgcaaccaga gtcaaagtta aaagaaactt ctgattctac ttctacttct 540  
 actccaactc ctacccttc cactaatgac tctaaggcca gttctgaaga aaatatatct 600



gaagctgaaa agacaagaag aaatttcacg gagcaagtta aacttcgtaa agctgcttta 660  
 gaaaagaaga gaaaggagca acttgaaggt tctagtggca acaataatat tccaatgaag 720  
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<210> 454  
 <211> 2679  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 454

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 cgcacgtcgg aacggctcct agccgctagt gtaaaggacg gaagttgctc aaatagcaaa 180  
 agcaataagc ggaactcttc ggcattcctg tcaggggaag aagataaatc ctgtctaatt 240  
 tcacttaatt gcctatgttg tgggtgtcca ctacggtttc cagcctccat aacgaaattt 300  
 cgatgcagcg catgccaaagt aacagttatt gtaaaggagc cggaaattaa cagtaatttg 360  
 gaatctagta cgcataattc gtgcacatta gaggggttgc agatggtagt aaggcgggtg 420  
 catgatgatt tgcagcggct taagaagact gggattctgg ataaagaaag aaaggggttg 480  
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attcaatcat tacggcgaac gcctacggat aatTTTTcat accaggtaga gatttttaaT 960  
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 ccacaataca ataaattTgt tTcaggTTTT aaaagggTct tcgcagaatg caattctata 2280  
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 ttattacaat tcgtaacggc atctgatcgt atacctgcaa cggttatctc tactatccca 2520  
 ttcaaaatta gcttgctagg gTcgcatgat agtgatgatt tgccattggc tcatacatgt 2580

tttaatgaaa tatgtttatg gaattattcc tcgaaaaaaa aactagaact gaaattactt 2640  
 tgggcaatta atgaatctga aggttacggg ttccgctaa 2679

<210> 455  
 <211> 1719  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 455

atgtgtggta tctttgcagc cttcaagcat gaagatattc acaacttcaa accaaaagct 60  
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 aattccacca ttttcgttca cgagaggttg gctattgttg gtttagactc cggtgcccag 180  
 ccaatcactt cagctgatgg cgaatatatg cttggcggtta atgggtgagat ctacaaccac 240  
 atccaactaa gggagatgtg ctctgattac aagtttcaaa ctttcagtga ctgtgaaccc 300  
 atcataccgt tatatttgga acatgatatc gatgctcaa aatatctgga cggtatgttc 360  
 gcattttgtc tgtatgattc caagaaagac cgtattgtcg ctgcaagaga ccctatcggg 420  
 gttgtcactt tatacatggg gcgttcttct cagtctccag agaccgttta ttttgccctcc 480  
 gaattaaaat gtctaactga cgtttgtgac agtatcattt cgttccctcc tggatcatgtc 540  
 tacgattctg aaacggacaa gattactcgt tactttaccc cagactgggt ggatgaaaag 600  
 cgtatcccat ccacccaggt tgactaccat gctatcagac acagttttaga aaaggccgtt 660  
 agaaagaggc taatggctga agttccatac ggtgttcttc tatccggtgg gctggactct 720  
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 gcggctagaa aagtcgcaa attcattggg tctatccacc atgaacacac ttttacatta 960  
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 gacactgtca tgagatggat tccaaaggcc gattgggggt gtgccgaaga tccttcaggt 1680  
 agatacgcca aaatacacga aaagcacgtc agtgcttaa 1719

<210> 456  
 <211> 1644  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 456

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 tccgaattac tgctacacca gtatgatgat ccattgatgt tcaaaccaaa ttcgcaggac 180  
 tatttcagga cttttctttt ggggcttttt tcaccatttc tttattattt cctgaagacc 240  
 tttctattca atataaatca aagggtttta atattgaacc tgatagtggg ttttctatc 300  
 aacgacgtct ttatgctttt gatactgatt ggttttagcgt accctcaggt gcaagatcac 360  
 gaaggcggta cgatcaagca taaggaatgt tcttggcaca tcattccaag acaagcctat 420  
 atctttggta tatcatgggc cctgggtgaa ttcaccatat gcataatagg gaatttgttt 480  
 aactaccaag aaatcgccga tccaaacatt aatagtggct tcacacacca ggaaagcgcc 540  
 aacacttact gtaacaataa tgatatgagc cataacgatg actgcggttg tagtacagaa 600  
 tatcgcccca acgtcgtaga cagaagtgat attacgttgt ccaaattgat tgaagtaaga 660  
 aatgactcat cttccatatc gaataacgta tactcgtctg agtaccatcc aatcaaacct 720  
 ctacgttcat cgtcatcaac ttatggcagc atacgacagc aacctcatga aaataagaag 780  
 cagctgcatg taccagataa ttcgcaggac gatacaatta tcatgatgaa ccccatcgac 840  
 aattcattaa agttgacaac tctagatacg ggtgatttga gtttcccat agacgaagaa 900  
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 gactccgctt tactaagatt ctgcaagaag ctagtcaaaa attggagggc tttggcaaga 1560  
 aatgattctt ttgtacttgg agtaatgggt tcttgagtc ttcttgtttt tgtaacggga 1620  
 atactttcaa cagtttatat atag 1644

<210> 457  
 <211> 1920  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 457

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 ccccaaaata atacaaaacc tcacaacgac aggaagaatt tcagaagaaa gcaaaagaaa 120  
 aataaccttt ctgctgaacc caacctcacc acttcaagcg cagatgatac tgatgaagaa 180  
 aatgaattat gtgtaatttg tgcgcgcaag ttaacatacg tatctctaac accatgccat 240  
 cataagacat gccatatctg tggtttcaga caacgagctt tgtacaacaa gaaaagctgt 300  
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 tcagataaat ataacttttg cgaaaaaat gaaaaatatg gaataaattt cactagcgaa 420  
 gaggttgcta ccgaaacact aaatctttta aaattttttt gtcccctatc gaaggatgaa 480  
 caagtttggtg actttggtag tttcaagaaa tataatgaac acttgaaatc tgaacataac 540  
 agaatgatct gtttaatatg tgcaacccat aagcatgcat tcccttgatg gcttgaaata 600  
 ttcacccaaa atcaattacg caaccatcaa actaagggtg attcagaagg attcaaaggc 660  
 caccctatgt gtgccttctg ttccggaaaa cgattttatt cagacgacga attgtacatt 720  
 cacatgagaa atcagcatga aaagtgccat atttgatgata agatgaaccc cgcttctcct 780  
 caatacttta aggattataa tcagcttttt gaccacttta aacattcgca ttacgtttgc 840  
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 aaaaagtcaa gcacacaaga tactaacgtg cacgataatt tgagggaatt gaacacaact 1860  
 agtggaggaa ataaaaagaa aggcaaaca aagcagctgt tattccacat tgggtgtatag 1920

<210> 458  
 <211> 1212  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 458

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 gattttttta tcttaccagg tttagtcgat tttgcgtcct ctgaagttag cctacagacc 180  
 aagctaacca ggaatattac tttaaactt ccattagtat cctctccaat ggacactgtg 240  
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 aactgtactc cagaggacca agctgacatg gtcagaagag tcaagaacta tgaaaatggg 360  
 tttattaaca accctatagt gatttctcca actacgaccg ttggtgaagc taagagcatg 420

aaggaaaagt atggatttgc aggcttccct gtcacggcag atggaaagag aaatgcaaag 480  
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caggatgtca tgaccaaaaa ccctgttacc ggcgcacaag gtatcacatt atcagaagg 600  
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aaatctgcca acaccaagca actgttatgg ggtgcttcta ttgggactat ggacgctgat 780  
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atcaccaggt ga 1212

<210> 459  
<211> 1248  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 459

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gtcaaggctt tgaagctgga cgtaagggtt gttacgccag atgccgccgc tgaacagttc 120  
gcaagggact ttcccttgaa gaaggttccg gctttcgtgg gtccaaaggg ttacaagcta 180  
accgaggcaa tggcgattaa ctattattta gtaaagcttt cacaggacga caagatgaag 240  
actcaacttt taggtgccga cgatgactta aatgcccaag cgcaaatcat cagatggcaa 300  
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<400> 460

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<210>      461
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<213>      Saccharomyces cerevisiae

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<400>      461

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<210> 462  
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<400> 462

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<210>      463
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<212>      DNA
<213>      Saccharomyces cerevisiae

<400>      463

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 464

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 <213> *Saccharomyces cerevisiae*

<400> 465

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 <213> *Saccharomyces cerevisiae*

<400> 466

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<210> 467  
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 <212> DNA

<213> Saccharomyces cerevisiae

<400> 467

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<210> 468  
 <211> 1449  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 468

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<211> 1245  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 469

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 470

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 <213> *Saccharomyces cerevisiae*

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 <211> 363  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

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 actggtattg ccccagacca agtgaccaga atgatcaccg gtgttccatg gtactccagc 300  
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<210> 473

<211> 1917  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 473

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<210> 474  
<211> 1152  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 474

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<211> 2106  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

<400> 476

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 <211> 2685  
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 <213> *Saccharomyces cerevisiae*

<400> 477

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 <211> 4086  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 478

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 <211> 2109  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*



<400>

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 481

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<400> 482

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<210> 483  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 483

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gcggatatca aatacgccaa taatggtaac tcacatcaag cagagcaaaa ggagagacaa  240
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3195

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<211> 1041  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 484

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<210> 485  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 485

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 486

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<210> 487  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 487

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ggaacggtga aaatatccga ttttggcggt gctatgtcaa ctgccaccgg aagtactaat 660  
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cacctggtag aagggaatc taacagcaag gatgacctta gaatagaagc agacgcatca 1620  
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tag 1683

<210> 488  
<211> 2145  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 488

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gatttcagaa acatcaaaat tgtagaagaa cctgttgtag tttctcacia tagttcaatt 180  
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 aataatagac cattgaatac attaaactgg tcaccaaata ttcttttacg atatttctgac 420  
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 catagaaatt tcacgctaaa aagatttctt agtttgaaaa atccatatgg aaaactgggt 780  
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agcgatgact atgattcaga atatctgagt gaggagaata cattgacaag aaaaggtgaa 1980  
gataggacag ataaatcttt tgggaaaaga gaattacaca atggcgctaa agattgtgat 2040  
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<211> 573  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 489

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caggggagaa cttattcccc tgtgcctaata acgggaggca aagtgcatta tatagaagac 180  
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ttaagtgtgg cgtgtggaaa agtgcagctc agagcccca gcaccagtat tagaggtcat 360  
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attggaatcg gcagagaacc tgggtcccggt tctagagacc ctgcgagcgt gtcccgggtg 480  
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<210> 490  
<211> 615  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 490

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ggtagaacgtg gtttatcttc cactattgta ggtggcagtg ccggtgcgta cgctggatct 180  
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cttgccaaca agatatctga tgagcgtaaa gagcataagc aacaagagca atacggcaac 300  
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acaataacgg tggatttggc ggtccaggcg gccctggcgg tcaaggtttc ggaagacaag 420

gcccacaagg atttgagggt cctggtccac aagagtttgg tgggccaggt ggccaaggat 480  
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ccctcaggaa ttcggggggc aaggctcgta aggattcaat ggcgggtcac gttggtgaat 600  
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<210> 491  
<211> 633  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 491

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acgtaccggt gctctatcaa gaacctaccc gcggatgtct ccaagctcat gtactcgata 180  
acgttccacc accatggccg gcagaccgtg ctaatcaagg acaactcagc gatggtgacg 240  
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<210> 492  
<211> 1377  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 492

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aagttcgaaa aggaagccgc tgaattaggt aagggttctt tcaagtacgc ttgggttttg 180  
gacaagttaa aggctgaaag agaaagaggt atcactatcg atattgcttt gtggaagttc 240  
gaaactccaa agtaccaagt taccgttatt gatgctccag gtcacagaga tttcatcaag 300

aacatgatta ctggtacttc tcaagctgac tgtgctatct tgattattgc tgggtggtgtc 360  
 ggtgaattcg aagccggtat ctctaaggat ggtcaaacca gagaacacgc tttgttggct 420  
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 gacgaatcca gattccaaga aattgtcaag gaaacctcca actttatcaa gaaggttggt 540  
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 ccagtcggtg gagttgaaac cgggtgcatc aagccaggta tgggtgttac ttttgcccca 840  
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<210> 493  
 <211> 2865  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 493

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 gcacacgac ctttagagaa tgtgcttcat gctaccataa ttaaaactat accaagattg 240  
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 gtaagggtca ctataaatga gaaagagaga atgccaaacca acagcagcgg tttgttgatc 360  
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<210> 494  
 <211> 786  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 494

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 gccaaattat acttgattcc agggctatgt gtcctcaac tgatagcgtg tgatccatac 300  
 aatggattca tttggttaga gttccttggga gaagatcttc ccggagggca cggttttagt 360  
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 atcatggagg ggttcgaaga ggtctatcgt gaacaagggt cgaaagggtc caagaaactg 720

aaagaagtta ccaaaagatt cgaagaggtc aggttgctg gtcgtaagag aagtatgcta 780  
ggataa 786

<210> 495  
<211> 2418  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 495

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<211> 2295  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 496

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 497

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<211> 390  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 498

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<211> 1848  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<210> 500  
<211> 1770  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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 <211> 1677  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 501

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 <211> 1809  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 502

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 <211> 2592  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 503

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<213> Saccharomyces cerevisiae

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<210> 512

<211> 1026

<212> DNA

<213> Saccharomyces cerevisiae

<400> 512

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<213> *Saccharomyces cerevisiae*  
  
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1356

<210> 514

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<213> *Saccharomyces cerevisiae*

<400> 514

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<400> 515

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<212>      DNA
<213>      Saccharomyces cerevisiae

<400>      518

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1152

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<213> *Saccharomyces cerevisiae*

<400> 525

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<400> 526

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 <213> *Saccharomyces cerevisiae*

<400> 529

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<400> 537

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<400> 540

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 541

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<210> 542  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 542

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 <211> 858  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 543

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 544

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<213> *Saccharomyces cerevisiae*

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<400> 549

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<213> *Saccharomyces cerevisiae*

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<212> DNA

<213> Saccharomyces cerevisiae

<400> 551

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<211> 1587

<212> DNA

<213> Saccharomyces cerevisiae

<400> 552

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<210> 554  
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<210> 555  
 <211> 981  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 555

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 557

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<210> 560  
 <211> 1941  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 560

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gatgaggatg aggataatga tcttgatgaa gacgatatct acgatatctc tctcttgaag 960  
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ataaaaattc ttggatctga gggctatcag aagacgtttt cgagactgga tgctttaaca 1500  
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tttgcaaagg ctaatatattg ttatgtcatg ggttaa 1596

<210> 565  
<211> 297  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 565

atgataacta aatacttcag taaggtaatt gtcaggttta atccctttgg caaggaagcg 60

aaagttgcta ggtagtact tgctgccatt ccaccaacgc aacgaaacat gggcacgcag 120  
attcaatcgg aaattatctc agattacaat aaagtcaagc ctcttgtgaa agtaacctac 180  
aaggacaaaa aagaaatgga agtcgatcca tcaaacaatga actttcagga attagccaat 240  
catttcgacc gtcactcgaa acagctggat ctcaaacata tgttggaat gcattga 297

<210> 566  
<211> 363  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 566

atgaccacca attctcggct ctgtccttcg agtccatctt cttccctaataaaaacattta 60  
actacatccg ggggaccatc aacctcactt actataatgt tgtcagtcac cgctatacga 120  
atcctccctg ctggcatgag aaattggata cgccaagccc tgggcagcct cctctttgca 180  
tcgtttctct tgctttcatc tttccactat ccaattaccc tgactctcgt tcctgtctat 240  
catgagtctc ttgtcaagcc aacaagtgtc tcctttggag gtatacgatt gtctcaactt 300  
actatgatta tggagaggag agcaacgcct acgtgtcaag acccatcgtt aaccgaggtc 360  
tag 363

<210> 567  
<211> 1908  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 567

atggcacctg ttacaattga aaagttcgta aatcaagaag aacgacacct tgtttccaac 60  
cgatcagcaa caattccgtt tggatgaatac atatttaaaa gattgttgtc catcgatacg 120  
aaatcagttt tcggtgttcc tggatgactc aacttatctc tattagaata tctctattca 180  
cctagtgttg aatcagctgg cctaagatgg gtcggcacgt gtaatgaact gaacgccgct 240  
tatgcgcccg acggatatcc ccgttactct aataagattg gctgtttaat aaccacgtat 300  
ggcgttgggtg aattaagcgc cttgaacggt atagccggtt cgttcgctga aaatgtcaaa 360  
gttttgcaca ttgttgggtg ggccaagtcc atagattcgc gttcaagtaa ctttagtgat 420  
cggaacctac atcatttgggt cccacagcta catgattcaa attttaaagg gccaaatcat 480  
aaagtatatc atgatatggt aaaagataga gtcgcttgct cggtagccta cttggaggat 540

attgaaactg catgtgacca agtcgataat gttatccgcg atattttacaa gtatttctaaa 600  
 cctgggttata tttttgttcc tgcagatttt gcggatatgt ctgttacatg tgataatttg 660  
 gttaatgttc cacgtatatc tcaacaagat tgtatagtat acccttctga aaaccaattg 720  
 tctgacataa tcaacaagat tactagttgg atatattcca gtaaaacacc tgcgatcctt 780  
 ggagacgtac tgactgatag gtatgggtgtg agtaactttt tgaacaagct tatctgcaaa 840  
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 actctcattc aatgtccctc taaattagca ctgaaattgg aggagcttaa gaattcaaac 1800  
 aaaagaagcg ggatagaact tttagaagtc aaattaggcg aattggattt ccccgaacag 1860  
 ctaaagtgca tgggtgaagc agcggcactt aaaagaaata aaaaatag 1908

<210> 568  
 <211> 417  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 568

atgatatttc taaaatctgt catcaaggta atcgacaatt cagggtgcaca attagcagaa 60  
 tgtattaaag taataaggaa aggggtcccc aagagtcctg caatgggttg agacagaata 120

gtctgtgtta tacagaaagc aaagcccttg actcaaaaca ttacggggac agccaacacc 180  
aaccgtgtca aaaaaggtga tatttgtcac gcaattgtcg taaggtctaa acagcgtaac 240  
atgtgcagaa aggatggctc caccgttgca ttcggagata ctgcttgctg tttgattaat 300  
aaaaataccg gtgaacctct ggggacaaga attatggcta atgatggttg tgtagataga 360  
aactgaaag acaaggata caataagata tgctctttgg caagtagggg catataa 417

<210> 569  
<211> 768  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 569

atggtgaaat taciaaggtt tagcgaagaa aaaagcctca tacacgaatt cggcaagttt 60  
atccttgaaa agcaagaatc ggcgttaacg ggcgacgctg atgcagtgtt caatatcgcc 120  
atcagtggag gatcgatgaa ccaagcgctg tacgaaagtt tggtaaata caaaaacatt 180  
ttccacata ttaagtggcc acaatggaga atcttcttct gtgacgaaag attggttcca 240  
tttgaggatc cgcaaagtaa ctatggctag ttcaaaaaaa cagttttgga cccgctagtg 300  
catcagggca accaattgaa cttaggcccc actgtatata ctatcaacga atcattaatc 360  
gggtggcggg aaacggccaa tagaaagatt gccgaagaat acgcttccat gctgctgca 420  
tcattcgacc taatcttact cggatgcgga gaagatggac atacatgctc gttgtttccc 480  
ggggttgaat ttaattacct tgtagaagag atggaccgca aggttttatg gtgtaataat 540  
tcgccaagg caccaagga caggatcacc ttacattag cagtagtagc cgaggctaaa 600  
agtgtgtgct ttctcgttag gggagctgct aaaaaggcta tcatgcatga cgtgttaatc 660  
gtaaaaaata gcgaactacc tagtgtgctg gttaatgaaa tggtcggaac caaagtaact 720  
tggtttctcg acgacgaagc tggcgcttg attcctgaaa actgctaa 768

<210> 570  
<211> 324  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 570

atgagtaggg ctagcaagat aacgtttgca gcttctgtc tgataacggc agcgacggta 60  
gtgggcgtgc attatgtgca agaaatggaa agggaaactt tgcacaggg tccgataaaa 120

gatgctaaac gagtcgaaga aaagaggttg agaaagacaa acggagttgc atcattagat 180  
cccacaaaag aaaggaaaag gtacttcaat atgagtgaac acgaggaaca aaaagagttg 240  
cgaaagaagt atgagaccat gcaaccgctt agtggagaag ttgtgaccaa agatggagag 300  
gtgggttaaag aatctaagaa ataa 324

<210> 571  
<211> 936  
<212> DNA  
<213> Saccharomyces cerevisiae

<400> 571

atgttgtcaa gaattgtatc aaacaatgca acacgctccg taatgtgcca ccaagcgcaa 60  
gtgggtattc ttataagac taaccagtg agaacttatg ctactttgaa agaagtggaa 120  
atgcgtttga aatctatcaa aaatattgag aagatcacia aaactatgaa gattgttgca 180  
tctacaagat tgagtaaagc tgaaaaggct aaaatttccg caaagaagat ggatgaagca 240  
gagcagttgt ttacaagaa cgccgaaacc aaaaatttgg atgttgaggc tactgaaaca 300  
ggtgctccta aagagttgat tgttgctatc acctctgata aggggttggtg tggttctatc 360  
cactctcaat tggctaaagc tgtgagaaga catttgaatg atcaaccaa cgccgatata 420  
gtcactattg gtgataaaat taaaatgcag ctattgagaa cccatcctaa caacattaaa 480  
ttgtctatta atggaattgg taaagatgcc ccaactttcc aagaatctgc ttgtattgcc 540  
gataagttat tgagtgtcat gaaggccggc acttacccaa agatttccat tttctacaat 600  
gaccagtggt cttccctatc ttttgaacca tctgaaaaac cgatctttaa cgccaagacc 660  
attgaacaat ccccatcatt cggcaaattt gagatcgaca cggacgcaa cgttccaaga 720  
gatttgtttg aatatacttt ggctaaccaa atgttgacag caatggctca aggttatgct 780  
gctgaaattt ccgccagaag aaacgctatg gataacgctt ccaagaatgc cggatgatatg 840  
atcaatcgtt actctatctt gtacaacaga acaagacaag ctgtcattac taatgaactg 900  
gttgatatta ttactgggtgc ttctctttg ggatga 936

<210> 572  
<211> 3294  
<212> DNA  
<213> Saccharomyces cerevisiae

<400> 572

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tcaacaatag agattattcc gagtgattct tttcgaaaat ataatagtca aggcttcaaa 180  
gcaaaggata cagatttaat gggtagcga ttagagtcta cttttgaaca agacgtatcg 240  
caaatggaac atgatatggc cgaccaagaa gagcatgacc tgtcatcatt cgagcgtaag 300  
aaacttccaa ccgattttga cccaagtttg tatgatattt ctttccaaca aattgatgag 360  
gaacagagcg tactgaatgg tatcaaagat gaaaatacat ctaccgtggg aagggtttttt 420  
gggtgtcacta gtgaaggaca ctctgtactt tgtaatgtta caggggttcaa gaactatctt 480  
tacgtcccg cgcccaattc ttccgacgct aacgatcagg agcaaataca caagtttgtg 540  
cactatttaa acgaaacatt tgaccacgct attgattcga ttgaagttgt atctaaacag 600  
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ccgcatatgg tcaacaaact gcgtactgag tttgaaagag gtcattcttc attcaactcg 720  
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gaaatgttga gcaattggcg taactttatc atcaaagttg atcctgatgt tatcattggg 1200  
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gtttctcaac tatttcgaaa gtgcctggag attgatactg tgatacctaa catgcaatct 1740

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ggtaacttac atagtgaagt tttgtgttca aataagaact gtgacatttt ttatatgcgg 3240  
gttaagggtta aaaaagagct gcaggagaaa gtagaacaat taagcaaag gtaa 3294

<210> 573  
<211> 1086  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 573

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aaaaaatgta gcagcatcgt tattaaagac ttaactgtcc cagctggaca gacttttagat 180  
ttaactgggt taagcagtgg tactactggt acgtttgaag gcacaaccac atttcagtac 240  
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tcgggacata ccattgatgg tcaaggagca aaatgggtggg atggcttagg tgatagcggg 360  
aaagtcaaac cgaagtttgt aaagttggcg ttgacgggaa catctaaggt caccggattg 420  
aatattaaaa atgctccaca ccaagtcttc agcatcaata aatgttcaga ttttaaccatc 480  
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gcgaagaggg ttaaaatttt ggtgaaaaac gctactaact ggcaatgggc tggggtgtca 1020  
attaccggtg gttcttccta ttctggatgt tctggaatcc catctggatc tgggtgcaagc 1080  
tgtaa 1086

<210> 574

<211> 714

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 574

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aaagtacgtg tagaaacaaa agtctttaat aagaaaatca acaaggagtt atttcataga 120  
agagattatt tagtgcata tgaaggtgaa atatcaaggg aggggtgatt agtaaggata 180  
gaagcgacga ggccgctttc aaagaggaag ttttttgcca ttgcagaaat tattagaaac 240

aaggggtcaac aatttgcatt atacgaatca gaagctcagt taagcgttgc aaaagaagaa 300  
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 aaaacaaccc ttttacgtga tattaggacc atccaagatg ctttatctag cgggtcaacg 420  
 ccgaaagagt tattggagat taaacaaagg tacggcattc aagatttttc acaagaaaca 480  
 gtgaggcaac ttttacagtt agacatctct ggattggagg ttaatttggg gaaacaaaga 540  
 agtctcattg atcgtattca aacgcgatta tccgaattgt tgtcgaatga tctaaaatgt 600  
 gatcaatttt tgaaggatca tgggtgttgag gatcctttga ccttgaaaaa aaacatcaaa 660  
 aaaaatttgt taagaaagca cgtcatgatg gatatgcaac aaccaagcca gtaa 714

<210> 575  
 <211> 489  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 575

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 gaccaactga aaggcaaagt agttctcata gttaatgttg cctccaagtg cggcttcacg 120  
 ccgcagtata aagaattgga agaactatac aaaaaatatac aagataaggg gtttggttatt 180  
 ttgggggttcc catgtaatca gttcggaag caggaaccgg gctctgatga acaaattacg 240  
 gaattttgccc agttgaatta tggcggttaca ttcccaatta tgaagaagat tgatgttaac 300  
 ggaagtaatg ctgactctgt ctataattat ttgaaaagcc aaaaagcagg ttactaggt 360  
 ttcaagggta tcaaattgga ttttgaaaag ttcttagttg attccaatgg taaggttgtc 420  
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 agtaaatga 489

<210> 576  
 <211> 1473  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 576

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 caagaaattg tggcaattaa ggtggtcaac ctggagcatt ccgacgaaga cattgaactg 180  
 ttagcacagg aaattttttt tctggcgga ttgaaatctc ctcttattac aaactatatt 240

gcaacaatgt tagaagatgt ctctatgtgg attgtcatgg aatattgcgg cgggtggatca 300  
tggttcagatt tactgaagcg aagttacgtc aacggtttgc ctgaagaaaa agtttccttc 360  
attattcatg aagtcacctt gggtttgaaa tacctgcatg agcaaaggaa aattcatcgt 420  
gatatcaaag cagctaatat ttactaaat gaagaaggta tggttaagtt gggtgatttc 480  
ggagtaagtg gccacattcg ttccactttg aaaagggaca cttttgtagg aacgccgtat 540  
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ttttcggatg cagcaaagga tttcgtagct ggttgtcttg ttaaaacacc tgctgatcgg 780  
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attacacaag actctccaac atcatcttta aatatggaaa gtccttattt acttcatggg 1080  
caaactgtaa cgccgataac caaccaagt tcttcatcat ttagaaaatg tacgcaacca 1140  
gttttcgagc ttgattcagg aatggatata gattcaggct gcccaaatgc tcaagcagag 1200  
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tatgatcgtg cgcgcgacga tgaaacaaga aaatacgtaa atgaaatggt aaagcaattc 1380  
attaaaactg aggcaaacgt tcctggattt aatgaggttt ttatagaaga gatctcacta 1440  
agaattgaag caataaagaa aggattcgtt taa 1473

<210> 577  
<211> 2988  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 577

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 <213> *Saccharomyces cerevisiae*

<400> 578

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<213> *Saccharomyces cerevisiae*

<400> 579

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<211> 303  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 580

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 581

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 582

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306

<210> 584  
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<210> 585  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 585

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 <400> 586

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 <213> *Saccharomyces cerevisiae*

<400> 587

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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 588

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 <213> *Saccharomyces cerevisiae*

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 ttacttaaca ttacatattt attggattag 330

<210> 590  
 <211> 330  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 590  
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aggacttcac acagtttttc tatcttacta atattctttt tcgtcacctg gtttatagtt 240  
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<210> 591  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
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 ataacctag 369

<210> 592  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
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 ttcggaaaaa ctaatacgaa agaagcaaca acaaattttt acaacaggct ggacgagaaa 300  
 agtggggaag agcaagcaga aaaaagaaaa gagaatagtc gttcttggat aatttattta 360  
 ttataa 366

<210> 593  
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 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 593

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cttacaatac ccggttgtag atccaagtcg tatacaaatg atttatcccc actcaaatg 300  
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<210> 594

<211> 387

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 594

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tatttttctt ctggctatct ccattgggtc ttaatcactc aaaattatat aatattcttg 180  
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gtcttaacgg tcatttctta ttgtgtttgc tgtctttctt gtttctttga tacttgtaaa 360  
tcagtactat actgttcaac atcctga 387

<210> 595

<211> 1044

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 595

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<210> 596  
 <211> 447  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

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<210> 597  
 <211> 1539  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 597  
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<213> Saccharomyces cerevisiae

<400> 608

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 aggttcaatg caaaggtttc tatggccaag agagccatcg atagcttaat acaaaagggg 2400  
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<210> 613  
 <211> 1395  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 613

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<210> 614  
 <211> 2013  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*  
 <400> 614

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atgttgaata acgagtggct gcatatcaat attgtcaaca aaccagccaa gaggggagcc 1920  
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<210> 615  
<211> 1227  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 615

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aagaaaggag atgtcgaaga tgtaggtgct ctcaagagtg aaaaaattt aaaaataaat 180

cctcgggaaa actcaaaaca tatatacaaa tgggttgccg ctttcgaaaa tggatttttg 240  
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tacaaaagct tcgaagatgc agttgggtta aaggagctgc aatcatttag caaagatgta 360  
tcaactgctg atataaacia ctgggtttta ccgagatata aaattctgct aaaaatcctg 420  
agcttaaaaa caaaagaaat tgactttaga gggttatcgc aagtgtttca aacactccaa 480  
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<210> 616  
<211> 1956  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 616

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gaactaaaga aacaagaaaa agctgcaaag agagctgcaa tgaagcaggc taatggtata 180  
tcattgaac aacagcaaca acaagcaca atgaaaaaag agaagaaaca actacaacgt 240  
gagcaacaac agaaaagaga gcaaaagcaa aaaaatgcc ataaaaaaa acaaaatgaa 300  
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acaatttttag ctttaaccag tgcagtatca tctccaaaaa cttcgcggaat caccgctgct 420  
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 ttggatgggt ggcaagagtt accttcgtta aatattgtca acatcttata cgatttaaca 1860  
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 cctgttattt taagagagta caaagggttc gcataa 1956

<210> 617  
 <211> 342

<212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 617

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 aatttactac cccatttttag cgtcagtgga ttggtaaatc ctttgctag caaggtactg 240  
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 agattgttct acaatatccg ctgtcttgga aagcaatttt ga 342

<210> 618  
 <211> 363  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 618

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 cccaaatatt ctccccctg gtttgatata ataaaagcac cttatggcaa caagattccc 240  
 gggatagtaa tgctatttaa atgtatatct atttctcgaa tacttgatc tttactccac 300  
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<210> 619  
 <211> 462  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 619

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 acaccacacc acaccacac accacacacc accctatcta acctgtctt taacctacc 240  
 tcacattacc ctacctccc actcgttacc ctgccccact caaccatacc actcccaacc 300

accatccatc tctctactta ctactaccat ccaccgccca tcataaccgt taccctccaa 360  
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 actcactgta ctggtgttct accctccata ttgaaacggt aa 462

<210> 620  
 <211> 1764  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 620

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<210> 621  
 <211> 1929  
 <212> DNA  
 <213> *Saccharomyces cerevisiae*

<400> 621

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<210> 622  
 <211> 358  
 <212> PRT  
 <213> Glycine max  
 <400> 622

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Leu	Asp	Met	Ala	Asp	Lys	Thr	Glu	Asp	Pro	Tyr	Met	Arg	Leu	Val	Tyr
		20					25					30			
Ala	Ser	Ser	Phe	Phe	Ile	Ser	Val	Tyr	Tyr	Ala	Tyr	Gln	Arg	Thr	Trp
	35					40					45				
Lys	Pro	Phe	Asn	Pro	Ile	Leu	Gly	Glu	Thr	Tyr	Glu	Met	Val	Asn	His
	50					55					60				
Gly	Gly	Ile	Thr	Phe	Ile	Ser	Glu	Gln	Val	Ser	His	His	Pro	Pro	Met
65					70					75					80

Ser Ala Gly His Ala Glu Thr Glu His Phe Thr Tyr Asp Val Thr Ser  
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 Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val Tyr Pro Val  
 100 105 110  
 Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val Leu Asp Leu  
 115 120 125  
 Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly Arg Thr Trp  
 130 135 140  
 Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr Thr Gly Asp  
 145 150 155 160  
 Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly Tyr Glu Val  
 165 170 175  
 Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr  
 180 185 190  
 Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly  
 195 200 205  
 Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp  
 210 215 220  
 Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile  
 225 230 235 240  
 Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg  
 245 250 255  
 Leu Arg Pro Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser  
 260 265 270  
 Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg  
 275 280 285  
 Asn Arg Glu Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu  
 290 295 300  
 Thr Asp Glu Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln  
 305 310 315 320  
 Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu  
 325 330 335  
 Cys Ile Glu Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr  
 340 345 350  
 Asp Asn Leu Asp Ala Glu  
 355

<210> 623  
 <211> 300

<212> PRT  
 <213> Glycine max  
 <400> 623

Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile Ser Val Val  
 1 5 10 15

Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly Val Ala Pro  
 20 25 30

Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg Gly Asn Leu  
 35 40 45

Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val Thr Ala Leu  
 50 55 60

His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp Cys Gln Arg  
 65 70 75 80

Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys Val His Gly  
 85 90 95

Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr Glu Met Asn  
 100 105 110

Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly Ala Asp Trp  
 115 120 125

Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu Val Ala Glu  
 130 135 140

Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly Asn His Arg  
 145 150 155 160

Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys Val Leu Tyr  
 165 170 175

Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys Asp Thr Asn  
 180 185 190

Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val Met Ser Gly  
 195 200 205

Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp Gln Thr Glu  
 210 215 220

Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val Ser Lys Asp  
 225 230 235 240

Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu Arg Gln Arg  
 245 250 255

Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp Ile Ser Lys  
 260 265 270

His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys Ser Pro Ile

275	280	285
His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu		
290	295	300
<210>	624	
<211>	355	
<212>	PRT	
<213>	Glycine max	
<400>	624	
Met Ala Glu Leu Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys		
1	5	10 15
Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile		
	20	25 30
Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile		
	35	40 45
Leu Gly Glu Thr Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile		
	50	55 60
Ser Glu Gln Val Ser His His Pro Pro Met Ser Ala Gly His Ala Glu		
65	70	75 80
Thr Glu His Phe Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe		
	85	90 95
Leu Gly Asn Ser Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr		
	100	105 110
Leu Lys Arg Asp Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys		
	115	120 125
Val Ser Asn Leu Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu		
	130	135 140
Met Ile Leu Thr Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe		
145	150	155 160
Gln Pro Cys Gly Trp Phe Gly Ala Gly Arg Tyr Glu Val Asp Gly Tyr		
	165	170 175
Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr Gly Lys Trp		
	180	185 190
Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly Glu Pro Leu		
	195	200 205
Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp Thr Pro Lys		
	210	215 220
Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile Asn Ser Phe		
225	230	235 240

Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg Leu Arg Pro  
 245 250 255  
 Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser Gly Tyr Glu  
 260 265 270  
 Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg Asn Arg Glu  
 275 280 285  
 Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu Thr Asp Glu  
 290 295 300  
 Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln Tyr Asn Gly  
 305 310 315 320  
 Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu Cys Ile Glu  
 325 330 335  
 Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr Asp Asn Leu  
 340 345 350  
 Asp Ala Glu  
 355

<210> 625  
 <211> 414  
 <212> PRT  
 <213> Zea mays

<400> 625

Met Ala Thr Lys Glu Glu Ala Ser Ala Val Pro Ala Ala Ser Lys Thr  
 1 5 10 15  
 Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu  
 20 25 30  
 Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr  
 35 40 45  
 Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro  
 50 55 60  
 Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp  
 65 70 75 80  
 Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu  
 85 90 95  
 Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu  
 100 105 110  
 Gly Lys Trp Ile Glu Asp Glu Asp Val Gly Glu Thr Arg Leu Ile Ser  
 115 120 125

Glu	Gln	Val	Ser	His	His	Pro	Pro	Ala	Thr	Ala	Tyr	Ser	Ile	Val	Asn	
130						135					140					
Glu	Lys	His	Gly	Val	Glu	Leu	Gln	Gly	Tyr	Asn	Ala	Gln	Lys	Ala	Ser	
145					150					155					160	
Phe	Ser	Ser	Thr	Ile	Gln	Val	Lys	Gln	Leu	Gly	His	Ala	Tyr	Leu	Ser	
				165					170					175		
Leu	Thr	Pro	Pro	Gly	Lys	Asp	Ala	Asn	Asn	Glu	Asp	Asp	Arg	Glu	His	
			180					185					190			
Tyr	Leu	Ile	Thr	Leu	Pro	Asn	Leu	His	Ile	Glu	Ser	Leu	Ile	Tyr	Gly	
	195					200						205				
Thr	Pro	Phe	Val	Glu	Leu	Glu	Lys	Ser	Cys	Lys	Ile	Ala	Ser	Ser	Thr	
	210					215					220					
Gly	Tyr	Ile	Ser	Lys	Ile	Asp	Phe	Ser	Gly	Lys	Gly	Trp	Leu	Ser	Gly	
225				230						235					240	
Lys	Lys	Asn	Thr	Phe	Ser	Ala	Val	Leu	Tyr	Lys	Glu	Ser	Asp	Gly	Glu	
			245					250						255		
Lys	Asn	Pro	Leu	Tyr	Thr	Ala	Asp	Gly	Gln	Trp	Ser	Ser	Ser	Phe	Thr	
		260						265					270			
Ile	Arg	Asp	Ala	Arg	Ala	Lys	Lys	Asp	Ile	Glu	Thr	Phe	Thr	Ile	Ser	
	275					280						285				
Asn	Leu	Lys	Thr	Thr	Pro	Leu	Thr	Val	Ala	Pro	Leu	Asp	Glu	Gln	Asp	
	290					295					300					
Glu	Trp	Glu	Thr	Arg	Arg	Ala	Trp	Arg	Asp	Val	Ala	Ala	Ala	Ile	Glu	
305				310						315					320	
Arg	Gly	Asp	Met	Glu	Ala	Thr	Ser	Asn	Ala	Lys	Thr	Lys	Ile	Glu	Val	
			325						330					335		
Ala	Gln	Arg	Glu	Leu	Arg	Lys	Lys	Glu	Lys	Glu	Gln	Gly	Glu	Glu	Trp	
		340						345					350			
Glu	Arg	Arg	Phe	Phe	Lys	Arg	Val	Asn	Glu	Lys	Asp	Glu	Pro	Thr	Phe	
	355						360					365				
Met	Arg	Leu	Ala	Ala	Met	Leu	Asp	Leu	Thr	Gln	Gly	Ile	Glu	Ser	Asp	
	370					375					380					
Arg	Thr	Gly	Gly	Val	Trp	Arg	Phe	Asp	Pro	Ser	Arg	Ala	Val	Asp	Ala	
385				390						395					400	
Asn	Pro	Pro	Tyr	His	Lys	Val	Gly	Gly	Glu	Gly	Leu	Gly	Leu			
				405					410							

<210> 626

<211> 434

<212> PRT  
 <213> Saccharomyces cerevisiae

<400> 626

Met	Ser	Gln	His	Ala	Ser	Ser	Ser	Ser	Trp	Thr	Ser	Phe	Leu	Lys	Ser	1	5	10	15
Ile	Ser	Ser	Phe	Asn	Gly	Asp	Leu	Ser	Ser	Leu	Ser	Ala	Pro	Pro	Phe	20	25	30	
Ile	Leu	Ser	Pro	Thr	Ser	Leu	Thr	Glu	Phe	Ser	Gln	Tyr	Trp	Ala	Glu	35	40	45	
His	Pro	Ala	Leu	Phe	Leu	Glu	Pro	Ser	Leu	Ile	Asp	Gly	Glu	Asn	Tyr	50	55	60	
Lys	Asp	His	Cys	Pro	Phe	Asp	Pro	Asn	Val	Glu	Ser	Lys	Glu	Val	Ala	65	70	75	80
Gln	Met	Leu	Ala	Val	Val	Arg	Trp	Phe	Ile	Ser	Thr	Leu	Arg	Ser	Gln	85	90	95	
Tyr	Cys	Ser	Arg	Ser	Glu	Ser	Met	Gly	Ser	Glu	Lys	Lys	Pro	Leu	Asn	100	105	110	
Pro	Phe	Leu	Gly	Glu	Val	Phe	Val	Gly	Lys	Trp	Lys	Asn	Asp	Glu	His	115	120	125	
Pro	Glu	Phe	Gly	Glu	Thr	Val	Leu	Leu	Ser	Glu	Gln	Val	Ser	His	His	130	135	140	
Pro	Pro	Met	Thr	Ala	Phe	Ser	Ile	Phe	Asn	Glu	Lys	Asn	Asp	Val	Ser	145	150	155	160
Val	Gln	Gly	Tyr	Asn	Gln	Ile	Lys	Thr	Gly	Phe	Thr	Lys	Thr	Leu	Thr	165	170	175	
Leu	Thr	Val	Lys	Pro	Tyr	Gly	His	Val	Ile	Leu	Lys	Ile	Lys	Asp	Glu	180	185	190	
Thr	Tyr	Leu	Ile	Thr	Thr	Pro	Pro	Leu	His	Ile	Glu	Gly	Ile	Leu	Val	195	200	205	
Ala	Ser	Pro	Phe	Val	Glu	Leu	Gly	Gly	Arg	Ser	Phe	Ile	Gln	Ser	Ser	210	215	220	
Asn	Gly	Met	Leu	Cys	Val	Ile	Glu	Phe	Ser	Gly	Arg	Gly	Tyr	Phe	Thr	225	230	235	240
Gly	Lys	Lys	Asn	Ser	Phe	Lys	Ala	Arg	Ile	Tyr	Arg	Ser	Pro	Gln	Glu	245	250	255	
His	Ser	His	Lys	Glu	Asn	Ala	Leu	Tyr	Leu	Ile	Ser	Gly	Gln	Trp	Ser	260	265	270	
Gly	Val	Ser	Thr	Ile	Ile	Lys	Lys	Asp	Ser	Gln	Val	Ser	His	Gln	Phe				



275					280					285									
Tyr	Asp	Ser	Ser	Glu	Thr	Pro	Thr	Glu	His	Leu	Leu	Val	Lys	Pro	Ile				
290					295					300									
Glu	Glu	Gln	His	Pro	Leu	Glu	Ser	Arg	Arg	Ala	Trp	Lys	Asp	Val	Ala				
305					310					315					320				
Glu	Ala	Ile	Arg	Gln	Gly	Asn	Ile	Ser	Met	Ile	Lys	Lys	Thr	Lys	Glu				
325					330					335									
Glu	Leu	Glu	Asn	Lys	Gln	Arg	Ala	Leu	Arg	Glu	Gln	Glu	Arg	Val	Lys				
340					345					350									
Gly	Val	Glu	Trp	Gln	Arg	Arg	Trp	Phe	Lys	Gln	Val	Asp	Tyr	Met	Asn				
355					360					365									
Glu	Asn	Thr	Ser	Asn	Asp	Val	Glu	Lys	Ala	Ser	Glu	Asp	Asp	Ala	Phe				
370					375					380									
Arg	Lys	Leu	Ala	Ser	Lys	Leu	Gln	Leu	Ser	Val	Lys	Asn	Val	Pro	Ser				
385					390					395					400				
Gly	Thr	Leu	Ile	Gly	Gly	Lys	Asp	Asp	Lys	Lys	Asp	Val	Ser	Thr	Ala				
405					410					415									
Leu	His	Trp	Arg	Phe	Asp	Lys	Asn	Leu	Trp	Met	Arg	Glu	Asn	Glu	Ile				
420					425					430									
Thr Ile																			